OIPE 0570 0606

CRF Errors Corrected by the STIC System Branch

CRF Processing Date: 6/20/2002

Serial Number: 10/017,066A ENTERED

Edited by: _____

Verified by: _____ (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:

  _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:

  _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

  _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

  _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:

  _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically:

  _____
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____.
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically:

  _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:

  _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted ***ending*** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☑ Other: replaced <1507 with <1517

  _____

  _____

  _____

***Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.**

3/1/95

OIPE

RAW SEQUENCE LISTING DATE: 06/20/2002
PATENT APPLICATION: US/10/017,066A TIME: 20:21:58

Input Set : N:\Crf3\06062002\J017066A.raw
Output Set: N:\CRF3\06202002\J017066A.raw

p6

```
      1 <110> APPLICANT: Arthur B. Raitano
      2       Daniel E.H. Afar
      3       Aya Jakobovits
      4       Mary Faris
      5       Rene S. Hubert
      6       Steve Chappell Mitchell
      7       Douglas C. Saffran
      8 <120> TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTOR
      9       UP-REGULATED IN PROSTATE CANCER AND USES THEREOF
     10 <130> FILE REFERENCE: 511582002410
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/017,066A
     12 <141> CURRENT FILING DATE: 2002-05-28
     13 <150> PRIOR APPLICATION NUMBER: US 09/680,728
     14 <151> PRIOR FILING DATE: 2000-10-05
     15 <150> PRIOR APPLICATION NUMBER: 60/157,902
     16 <151> PRIOR FILING DATE: 1999-10-05
     17 <160> NUMBER OF SEQ ID NOS: 50
     18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
     20 <210> SEQ ID NO: 1
     21 <211> LENGTH: 3136
     22 <212> TYPE: DNA
     23 <213> ORGANISM: Homo Sapiens
     24 <220> FEATURE:
     25 <221> NAME/KEY: CDS
     26 <222> LOCATION: (133)...(1083)
     27 <400> SEQUENCE: 1
     28       cagagaggct gtatttcagt gcagcctgcc agacctcttc tggaggaaga ctggacaaag     60
     29       ggggtcacac attccttcca tacggttgag cctctacctg cctggtgctg gtcacagttc    120
     30       agcttcttca tg atg gtg gat ccc aat ggc aat gaa tcc agt gct aca tac    171
     31                    Met Val Asp Pro Asn Gly Asn Glu Ser Ser Ala Thr Tyr
     32                     1               5                  10
     33       ttc atc cta ata ggc ctc cct ggt tta gaa gag gct cag ttc tgg ttg     219
     34       Phe Ile Leu Ile Gly Leu Pro Gly Leu Glu Glu Ala Gln Phe Trp Leu
     35            15                  20                  25
     36       gcc ttc cca ttg tgc tcc ctc tac ctt att gct gtg cta ggt aac ttg     267
     37       Ala Phe Pro Leu Cys Ser Leu Tyr Leu Ile Ala Val Leu Gly Asn Leu
     38        30                  35                  40                  45
     39       aca atc atc tac att gtg cgg act gag cac agc ctg cat gag ccc atg     315
     40       Thr Ile Ile Tyr Ile Val Arg Thr Glu His Ser Leu His Glu Pro Met
     41                        50                  55                  60
     42       tat ata ttt ctt tgc atg ctt tca ggc att gac atc ctc atc tcc acc     363
     43       Tyr Ile Phe Leu Cys Met Leu Ser Gly Ile Asp Ile Leu Ile Ser Thr
     44                    65                  70                  75
```

RAW SEQUENCE LISTING DATE: 06/20/2002
PATENT APPLICATION: US/10/017,066A TIME: 20:21:58

Input Set : N:\Crf3\06062002\J017066A.raw
Output Set: N:\CRF3\06202002\J017066A.raw

```
45      tca tcc atg ccc aaa atg ctg gcc atc ttc tgg ttc aat tcc act acc      411
46      Ser Ser Met Pro Lys Met Leu Ala Ile Phe Trp Phe Asn Ser Thr Thr
47               80                  85                  90
48      atc cag ttt gat gct tgt ctg cta cag att ttt gcc atc cac tcc tta      459
49      Ile Gln Phe Asp Ala Cys Leu Leu Gln Ile Phe Ala Ile His Ser Leu
50           95                 100                 105
51      tct ggc atg gaa tcc aca gtg ctg ctg gcc atg gct ttt gac cgc tat      507
52      Ser Gly Met Glu Ser Thr Val Leu Leu Ala Met Ala Phe Asp Arg Tyr
53      110                 115                 120                 125
54      gtg gcc atc tgt cac cca ctg cgc cat gcc aca gta ctt acg ttg cct      555
55      Val Ala Ile Cys His Pro Leu Arg His Ala Thr Val Leu Thr Leu Pro
56                      130                 135                 140
57      cgt gtc acc aaa att ggt gtg gct gct gtg gtg cgg ggg gct gca ctg      603
58      Arg Val Thr Lys Ile Gly Val Ala Ala Val Val Arg Gly Ala Ala Leu
59                  145                 150                 155
60      atg gca ccc ctt cct gtc ttc atc aag cag ctg ccc ttc tgc cgc tcc      651
61      Met Ala Pro Leu Pro Val Phe Ile Lys Gln Leu Pro Phe Cys Arg Ser
62              160                 165                 170
63      aat atc ctt tcc cat tcc tac tgc cta cac caa gat gtc atg aag ctg      699
64      Asn Ile Leu Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu
65          175                 180                 185
66      gcc tgt gat gat atc cgg gtc aat gtc gtc tat ggc ctt atc gtc atc      747
67      Ala Cys Asp Asp Ile Arg Val Asn Val Val Tyr Gly Leu Ile Val Ile
68      190                 195                 200                 205
69      atc tcc gcc att ggc ctg gac tca ctt ctc atc tcc ttc tca tat ctg      795
70      Ile Ser Ala Ile Gly Leu Asp Ser Leu Leu Ile Ser Phe Ser Tyr Leu
71                      210                 215                 220
72      ctt att ctt aag act gtg ttg ggc ttg aca cgt gaa gcc cag gcc aag      843
73      Leu Ile Leu Lys Thr Val Leu Gly Leu Thr Arg Glu Ala Gln Ala Lys
74                  225                 230                 235
75      gca ttt ggc act tgc gtc tct cat gtg tgt gct gtg ttc ata ttc tat      891
76      Ala Phe Gly Thr Cys Val Ser His Val Cys Ala Val Phe Ile Phe Tyr
77              240                 245                 250
78      gta cct ttc att gga ttg tcc atg gtg cat cgc ttt agc aag cgg cgt      939
79      Val Pro Phe Ile Gly Leu Ser Met Val His Arg Phe Ser Lys Arg Arg
80          255                 260                 265
81      gac tct ccg ctg ccc gtc atc ttg gcc aat atc tat ctg ctg gtt cct      987
82      Asp Ser Pro Leu Pro Val Ile Leu Ala Asn Ile Tyr Leu Leu Val Pro
83      270                 275                 280                 285
84      cct gtg ctc aac cca att gtc tat gga gtg aag aca aag gag att cga     1035
85      Pro Val Leu Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Glu Ile Arg
86                      290                 295                 300
87      cag cgc atc ctt cga ctt ttc cat gtg gcc aca cac gct tca gag ccc     1083
88      Gln Arg Ile Leu Arg Leu Phe His Val Ala Thr His Ala Ser Glu Pro
89                  305                 310                 315
90      taggtgtcag tgatcaaact tcttttccat tcagagtcct ctgattcaga ttttaatgtt   1143
91      aacattttgg aagacagtat tcagaaaaaa aatttcctta ataaaaaata caactcagat   1203
92      ccttcaaata tgaaactggt tggggaatct ccatttttc aatattattt tcttctttgt   1263
93      tttcttgcta catataatta ttaataccct gactaggttg tggttggagg gttattactt   1323
```

RAW SEQUENCE LISTING DATE: 06/20/2002
PATENT APPLICATION: US/10/017,066A TIME: 20:21:58

Input Set : N:\Crf3\06062002\J017066A.raw
Output Set: N:\CRF3\06202002\J017066A.raw

ttcattttac catgcagtcc aaatctaaac tgcttctact gatggtttac agcattctga 1383
gataagaatg gtacatctag agaacatttg ccaaaggcct aagcacggca aaggaaaata 1443
aacacagaat ataataaaat gagataatct agcttaaaac tataacttcc tcttcagaac 1503
tcccaaccac attggatctc agaaaaatgc tgtcttcaaa atgacttcta cagagaagaa 1563
ataatttttc ctctggacac tagcacttaa ggggaagatt ggaagtaaag ccttgaaaag 1623
agtacattta cctacgttaa tgaaagttga cacactgttc tgagagtttt cacagcatat 1683
ggaccctgtt tttcctattt aattttctta tcaacccttt aattaggcaa agatattatt 1743
agtaccctca ttgtagccat gggaaaattg atgttcagtg gggatcagtg aattaaatgg 1803
ggtcatacaa gtataaaaat taaaaaaaaa aaagacttca tgcccaatct catatgatgt 1863
ggaagaactg ttagagagac caacagggta gtgggttaga gatttccaga gtcttacatt 1923
ttctagagga ggtatttaat ttcttctcac tcatccagtg ttgtatttag gaatttcctg 1983
gcaacagaac tcatggcttt aatcccacta gctattgctt attgtcctgg tccaattgcc 2043
aattacctgt gtcttggaag aagtgatttc taggttcacc attatggaag attcttattc 2103
agaaagtctg catagggctt atagcaagtt atttattttt aaaagttcca taggtgattc 2163
tgataggcag tgaggttagg gagccaccag ttatgatggg aagtatggaa tggcaggtct 2223
tgaagataac attggccttt tgagtgtgac tcgtagctgg aaagtgaggg aatcttcagg 2283
accatgcttt atttggggct ttgtgcagta tggaacaggg actttgagac caggaaagca 2343
atctgactta ggcatgggaa tcaggcattt ttgcttctga ggggctatta ccaagggtta 2403
ataggtttca tcttcaacag gatatgacaa cagtgttaac caagaaactc aaattacaaa 2463
tactaaaaca tgtgatcata tatgtggtaa gtttcatttt ctttttcaat cctcaggttc 2523
cctgatatgg attcctataa catgctttca tccccttttg taatggatat catatttgga 2583
aatgcctatt taatacttgt atttgctgct ggactgtaag cccatgaggg cactgtttat 2643
tattgaatgt catctctgtt catcattgac tgctctttgc tcatcattga atcccccagc 2703
aaagtgccta gaacataata gtgcttatgc ttgacaccgg ttatttttca tcaaacctga 2763
ttccttctgt cctgaacaca tagccaggca attttccagc cttctttgag ttgggtatta 2823
ttaaattctg gccattactt ccaatgtgag tggaagtgac atgtgcaatt tctatacctg 2883
gctcataaaa ccctcccatg tgcagccttt catgttgaca ttaaatgtga cttgggaagc 2943
tatgtgttac acagagtaaa tcaccagaag cctggatttc tgaaaaaact gtgcagagcc 3003
aaacctctgt catttgcaac tcccacttgt atttgtacga ggcagttgga taagtgaaaa 3063
ataaagtact attgtgtcaa gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3123
aaaaaaaaaa aaa 3136

<210> SEQ ID NO: 2
<211> LENGTH: 317
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens
<400> SEQUENCE: 2

Met Val Asp Pro Asn Gly Asn Glu Ser Ser Ala Thr Tyr Phe Ile Leu
1 5 10 15
Ile Gly Leu Pro Gly Leu Glu Glu Ala Gln Phe Trp Leu Ala Phe Pro
20 25 30
Leu Cys Ser Leu Tyr Leu Ile Ala Val Leu Gly Asn Leu Thr Ile Ile
35 40 45
Tyr Ile Val Arg Thr Glu His Ser Leu His Glu Pro Met Tyr Ile Phe
50 55 60
Leu Cys Met Leu Ser Gly Ile Asp Ile Leu Ile Ser Thr Ser Ser Met
65 70 75 80
Pro Lys Met Leu Ala Ile Phe Trp Phe Asn Ser Thr Thr Ile Gln Phe
85 90 95
Asp Ala Cys Leu Leu Gln Ile Phe Ala Ile His Ser Leu Ser Gly Met

RAW SEQUENCE LISTING DATE: 06/20/2002
PATENT APPLICATION: US/10/017,066A TIME: 20:21:58

Input Set : N:\Crf3\06062002\J017066A.raw
Output Set: N:\CRF3\06202002\J017066A.raw

```
                100                 105                 110
Glu Ser Thr Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
            115                 120                 125
Cys His Pro Leu Arg His Ala Thr Val Leu Thr Leu Pro Arg Val Thr
        130                 135                 140
Lys Ile Gly Val Ala Ala Val Val Arg Gly Ala Ala Leu Met Ala Pro
145                 150                 155                 160
Leu Pro Val Phe Ile Lys Gln Leu Pro Phe Cys Arg Ser Asn Ile Leu
                165                 170                 175
Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys Asp
            180                 185                 190
Asp Ile Arg Val Asn Val Val Tyr Gly Leu Ile Val Ile Ile Ser Ala
        195                 200                 205
Ile Gly Leu Asp Ser Leu Leu Ile Ser Phe Ser Tyr Leu Leu Ile Leu
    210                 215                 220
Lys Thr Val Leu Gly Leu Thr Arg Glu Ala Gln Ala Lys Ala Phe Gly
225                 230                 235                 240
Thr Cys Val Ser His Val Cys Ala Val Phe Ile Phe Tyr Val Pro Phe
                245                 250                 255
Ile Gly Leu Ser Met Val His Arg Phe Ser Lys Arg Arg Asp Ser Pro
            260                 265                 270
Leu Pro Val Ile Leu Ala Asn Ile Tyr Leu Leu Val Pro Pro Val Leu
        275                 280                 285
Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Glu Ile Arg Gln Arg Ile
    290                 295                 300
Leu Arg Leu Phe His Val Ala Thr His Ala Ser Glu Pro
305                 310                 315
<210> SEQ ID NO: 3
<211> LENGTH: 320
<212> TYPE: PRT
<213> ORGANISM: Rat Protein
<400> SEQUENCE: 3
Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Met Leu Ile Gly Ile
 1               5                  10                  15
Pro Gly Leu Glu Glu Ala His Phe Trp Phe Gly Phe Pro Leu Leu Ser
            20                  25                  30
Met Tyr Ala Val Ala Leu Phe Gly Asn Cys Ile Val Val Phe Ile Val
        35                  40                  45
Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
    50                  55                  60
Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
65                  70                  75                  80
Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Thr Phe Asp Ala Cys
                85                  90                  95
Leu Ala Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
            100                 105                 110
Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
        115                 120                 125
Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Val Gln Ile Gly
```

RAW SEQUENCE LISTING DATE: 06/20/2002
PATENT APPLICATION: US/10/017,066A TIME: 20:21:58

Input Set : N:\Crf3\06062002\J017066A.raw
Output Set: N:\CRF3\06202002\J017066A.raw

```
194          130                 135                 140
195      Met Val Ala Leu Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu
196      145                 150                 155                 160
197      Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser
198                      165                 170                 175
199      Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Thr Asp Thr Leu
200                  180                 185                 190
201      Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val
202              195                 200                 205
203      Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Ala Val
204          210                 215                 220
205      Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys
206      225                 230                 235                 240
207      Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly
208                      245                 250                 255
209      Leu Ser Val Val His Arg Phe Gly Asn Ser Leu Asp Pro Ile Val His
210                  260                 265                 270
211      Val Leu Met Gly Asp Val Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro
212              275                 280                 285
213      Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala
214          290                 295                 300
215      Met Phe Lys Ile Ser Cys Asp Lys Asp Ile Glu Ala Gly Gly Asn Thr
216      305                 310                 315                 320
218 <210> SEQ ID NO: 4
219 <211> LENGTH: 320
220 <212> TYPE: PRT
221 <213> ORGANISM: Homo Sapiens
222 <400> SEQUENCE: 4
223      Met Ser Ser Cys Asn Phe Thr His Ala Thr Cys Val Leu Ile Gly Ile
224       1               5                  10                  15
225      Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser
226                  20                  25                  30
227      Met Tyr Val Val Ala Met Cys Gly Asn Cys Ile Val Val Phe Ile Val
228              35                  40                  45
229      Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
230          50                  55                  60
231      Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
232      65                  70                  75                  80
233      Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Ile Glu Ala Cys
234                      85                  90                  95
235      Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
236                  100                 105                 110
237      Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
238              115                 120                 125
239      Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly
240          130                 135                 140
241      Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu
242      145                 150                 155                 160
243      Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser
```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/20/2002
PATENT APPLICATION: US/10/017,066A TIME: 20:21:59

Input Set : N:\Crf3\06062002\J017066A.raw
Output Set: N:\CRF3\06202002\J017066A.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:41; N Pos. 6,12,15
Seq#:42; N Pos. 3,6,12,15
Seq#:43; N Pos. 12,15
Seq#:44; N Pos. 3,12,15
Seq#:45; N Pos. 3,9,18
Seq#:46; N Pos. 3,9
Seq#:47; N Pos. 6,9,21
Seq#:48; N Pos. 1,13,16
Seq#:49; N Pos. 1,7,10,16
Seq#:50; N Pos. 10,16,19